

# 2014 Carbon Neutral Action Report



**NORTH ISLAND**



**COLLEGE**

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## Declaration Statement

This *Carbon Neutral Action Report* for North Island College for the period January 1<sup>st</sup> to December 31<sup>st</sup>, 2014 summarizes our emissions profile, the amount of offsets purchased to reach net zero emission, the actions we have taken in 2014 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2015 and beyond.

By June 30 North Island College's final *Carbon Neutral Action Report* will be posted to our website at [http://www.nic.bc.ca/about\\_us/environmental.aspx](http://www.nic.bc.ca/about_us/environmental.aspx).

## Overview and Executive Summary

North Island College is a community college committed to excellence in our programs and services. Among the College's Vision Statements is being a respectful steward of our unique natural setting. The College's Values frame everything we do and express our commitment to our students, communities, residents of our region and ourselves, in part through social and environmental responsibility by actively engaging in the economic and social development of our communities and as active stewards of the unique natural environment in which we reside. Among the College's Strategic Directions that are fundamental to the College achieving its vision are working with community partners to improve transport to and between campuses, working with our communities to promote awareness of the beauty of our natural setting, and supporting implementation of environmentally sustainable practices.

Our actions in 2014 towards becoming carbon neutral include reducing greenhouse gas emissions through upgrading and refitting lighting and HVAC equipment as this equipment reaches the end of their functional life cycles, developing sustainability policies, and education. We have ongoing commitments to refit equipment and upgrade services to improve efficiency and reduce greenhouse gas emissions. North Island College endeavors to improve and test efficient technologies for building infrastructure and communications.

Canada Green Building Council presented the final elements of the Leadership in Energy and Environmental Design (LEED) Canada Certification for the Gold Rating achieved in 2013 for the North Island College's Trades Training Centre located at the Comox Valley Campus. This building has brought the college forward in new technologies and identified opportunities to apply to the college facilities. This building is the first LEED targeted building in the Comox Valley and as such has generated considerable attention. As an educational value of the green building features to inspire and educate occupants and interested parties about the benefits of sustainable building and practices, guided tours are provided by North Island College to various groups and individuals upon request.

Actions taken to reduce greenhouse gas emissions in 2014 include the following:

- Replaced all exterior lighting at the Comox Valley and Port Alberni Campuses including building lighting, post top lighting, parking lot lighting, and roadway lighting with LED fixtures. Existing lights replaced consisted of CFL, CF, & PL lamps (compact fluorescent lamps) and ML (metal halide).
- Completed renewals on HVAC systems for Raven Hall, Discovery Hall, Puntledge Hall, Stan Hagen Theatre, and Shadbolt Studios at the Comox Valley Campus and at the Port Alberni Roger Street Campus.
- Upgraded controls for the new DDC system to effectively run the new and existing equipment for better climate control, reducing interior CO<sub>2</sub> levels, and reducing energy usage through programming and daily temperature adjustments.
- Retrofitting programmable thermostats to allow better temperature control of buildings, both for programming and for daily temperature adjustments.
- We continue to support community initiatives such as 'Bike to Work Week' and work with local community and governments to support initiatives and awareness.

North Island College's greenhouse gas emissions in 2014 were 1,012 tonnes of tCO<sub>2</sub>e. This is a decrease of 62 tonnes (equivalent) from 2013 emissions.

We plan to continue to reduce greenhouse gas emissions through energy conservation by educating and encouraging behavioral change. As the greatest portion of the College's greenhouse gas emissions are generated by stationary fuel combustion and electricity, to improve efficiency in order to reduce these emissions the College will continue to retrofit equipment and upgrade services. We will continue to work with BC Hydro to perform energy and lighting retrofits to improve efficiency.



## Emissions and Offsets Summary:

<b>North Island College GHG Emissions and Offsets for 2014 (TCO2E)</b>	
<b>GHG Emissions created in Calendar Year 2014</b> <i>(from SMARTTool Homepage):</i>	
Total Emissions (TCO2E)	1013
Total Offsets (TCO2E)	1012
<b>Adjustments to GHG Emissions Reported in Prior Years</b> <i>(from SMARTTool Homepage):</i>	
Total Emissions (TCO2E)	1
Total Offsets (TCO2E)	1
<b>Total Emissions for Offset for the 2014 Reporting Year</b> <i>(from SMARTTool Homepage)</i>	
Total Offsets (TCO2E)	1012

### Executive sign-off:

Signature



Date

May 27/15

Name (please print)

CAROL BAERT

Title

VICE PRESIDENT FINANCE & FACILITIES

## About North Island College

North Island College, as a public, post-secondary institution, offers over 900 courses and 70 credit programs in health care, trades, business, fine arts, tourism, and university studies that serve the diverse needs of citizens of North Vancouver Island and beyond. We strive to develop the knowledge and skills required to strengthen our communities and to foster leadership and growth. We work with our community partners to create opportunities for rewarding careers for our students, to fulfill dreams, and to facilitate positive change.

North Island College's primary service area encompasses five regional districts and six school districts including northern Vancouver Island and the BC mainland coast from Desolation Sound to Klemtu. NIC is a guest on the traditional territories of 35 First Nations. North Island College serves over 159,000 people and a geographic region of 80,000 square kilometers with four campuses, one learning center, and two vocational centers.



No other college in British Columbia serves a region as vast and diverse as North Island College. The time and cost of travel present barriers to education. That's why we're working with our communities to make education accessible where it wouldn't otherwise exist. The College is distinguished by its commitment to serving its widely dispersed population through pathway programming, technology-enabled distance learning, and in-community programming.

North Island College holds a vision of being a premier community and destination college, in a spectacular west-coast environment, that inspires and prepares students for success in a rapidly changing world. We want to expose students from our region, and those from elsewhere in Canada and throughout the world to the excellence and spectacular learning environment that is North Island College. One of the College's vision criteria is being a respectful steward of our unique natural setting. A key value at North Island College is for Social and Environmental Responsibility by actively engaging in the economic and social development of our communities and being active stewards of the unique natural environment in which we reside.

## Greenhouse Gas Emissions

Under the British Columbia Provincial *Greenhouse Gas Reduction Targets Act*, Chapter 42, the targets established for the purpose of reducing BC greenhouse gas (GHG) tCO<sub>2</sub>e emissions are 33% by 2020 & 80% by 2050.

As well, in 2008 the BC Government reviewed and accepted the recommendations of the Climate Action Team, establishing interim GHG reduction targets of 6% below 2007 levels by 2012 and 18% by 2016. Each public sector organization, which North Island College has been categorized as, shall be carbon neutral for the 2010 calendar year and for each subsequent calendar year.

CO <sub>2</sub> e Emission Source (1)	CO <sub>2</sub> e Emissions (Tonnes)				
	2014	2013	2012	2011	2010
Stationary Fuel Combustion & Electricity (Buildings)	951	1044	1132.43	1175	985.33
Supplies (Paper)	43	19	6.75	42	1.42
Mobile Fuel Combustion (Fleet & Other Mobile Equipment)	18	11	6.43	10	82.35
<b>Total Carbon Footprint (tCO<sub>2</sub>e) (2)</b>	<b>1012</b>	<b>1074</b>	<b>1145.61</b>	<b>1227</b>	<b>1069.1</b>
Emissions per Full-time Employee (323.75) & Student (2644.81)	0.34	0.36	n/a	n/a	n/a
Emissions per Building Space (32,819.60 m <sup>2</sup> )	0.03	0.03	n/a	n/a	n/a

- (1) It was estimated that Fugitive Emissions from cooling equipment do not comprise more than 0.01% of North Island College's total emissions and an ongoing effort to collect or estimate emissions from this source would be disproportionately onerous. For this reason, emissions from this source have been deemed out-of-scope and have not been included in our total greenhouse gas emissions profile.
- (2) Due to rounding values, the total Carbon Footprint of tCO<sub>2</sub>e does not add exactly.

As seen from the table on the previous page, the vast majority of our carbon emissions are generated through building's stationary fuel combustion and electricity. North Island College's carbon footprint in 2014, in accordance with the Greenhouse Gas Reduction Targets Act (as reported in SMARTTool), was 1,012 tonnes. This represents a reduction of 62 tonnes from our 2013 footprint of 1,074 tonnes.

## Energy & Environmental Sustainability

North Island College's Environmental Sustainability Team was created in 2012 to provide leadership and direction in assisting the College in achieving its sustainability commitments as outlined in NIC's 2011-2015 Strategic Plan as well as the CICAN Pan-Canadian Protocol for Sustainability. The Environmental Sustainability Team was established with a mandate to model sustainability leadership at North Island College campus locations by increasing awareness of sustainability issues, supporting the implementation of practices that reduce the environmental footprint of College operations, and encouraging dialogue and discussion about environmental sustainability amongst the college community and the community-at-large in the North Island College region. The Environmental Sustainability Team webpage is located at [http://www.nic.bc.ca/about\\_us/environmental.aspx](http://www.nic.bc.ca/about_us/environmental.aspx). This website contains College sustainability information and links to sites such as the Comox Valley Conservation Strategy and the Low Energy Housing Project – Vancouver Island. Through the work of the Environmental Sustainability Team, NIC continues to seek new, innovative methods to achieve sustainability.

The Environmental Sustainability Team has identified the following priority areas/initiatives for further investigation and implementation:

- Reduce/Reuse/Recycle initiatives such as waste reduction (i.e. water bottle fill stations to replace bottled water), improved/enhanced recycling programs, education/communication to reduce printing and improved/enhanced composting practices.
- Energy reduction initiatives such as enhanced use of programmable thermostats, low-energy lights and motion-activated/timer lights.
- Transportation initiatives such as promotion/support for alternative (to single occupant car) commuting methods and being an advocate for improved public transit options for College community.
- Community Engagement /Education initiatives include provision of easy access to sustainability ideas and information via North Island College website and portal, facilitation of dialogue about sustainability issues amongst the College community and support for the integration of sustainability into programming/curriculum (where appropriate) and staff development programs.

NIC has been a member of the Pan-Canadian Protocol for Sustainability since 2010 and, by signing the protocol; we have pledged to maximize our contribution to a sustainable future. We are committed to our role as a community leader in environmental stewardship.



NIC has been a BC Hydro Power Smart Partner since 2002, committing to doing our part to save energy and create a culture of sustainability, adopting the principles of energy efficiency into our ongoing business management practices, and upgrading our existing facilities with energy conservation measures.

## **Carbon Offsets**

North Island College was carbon neutral in 2014. This was achieved through the key achievements for emissions reduction and sustainability and through carbon offsets purchased from the Climate Investment Branch of the Climate Action Secretariat. The in-scope carbon offsets tCO<sub>2</sub>e emissions in 2014 amounted to 1,012 tonnes, based upon the 2014 building energy data, paper use, and fleet information entered into Climate Action Secretariat's SMARTTool data entry program and the GHG measurements based upon this data.

## **Key Achievements for Emissions Reduction & Sustainability**

The renewals of the HVAC systems for the Comox Valley and Port Alberni campuses started in 2013 were completed in 2015. Upgraded controls for the new DDC system effectively run the new and existing equipment for better climate control, while reducing interior CO<sub>2</sub> levels and reducing energy levels.

Lighting upgrades continue to take place at North Island College. A major upgrade of all exterior lighting at the Comox Valley and Port Alberni campus including building lighting, post top lighting, parking lot lighting, and roadway lighting with LED fixtures started in 2014 will be completed in 2015. Lighting upgrades in 2014 at the Comox Valley Campus will realize an estimated average saving of 106,514 KWh, and a lighting upgrade at the Port Alberni Campus will realize an estimated saving of 30,427 KWh. Full cut-off fixtures were used when appropriate, reducing light pollution and improving the natural 'dark-sky' environment.

Energy efficient interior lighting replaced the existing lighting in the 'Village' at the Comox Valley Campus realizing an estimated saving of 14,352 KWh.

Exterior lighting controls at the Comox Valley and Port Alberni campuses were upgraded in 2014. Lighting is now set to go on/off automatically based upon the campus's geographic longitude and latitude location, and date.

All toilets in the Port Alberni and Comox Valley Campus were replaced in 2014 with low flow toilets and tap fixtures were replaced with a hands-free tap system. This allowed the Port Alberni campus to realize a 55% reduction in water usage in the last quarter of 2014 when compared to the same time period in 2012 (3558 cubic meters in 2014 vs. 7878 cubic meters in 2012). The Comox Valley Campus realized a reduction of 61% usage in the last quarter of 2014 when compared to the same time period in 2012 (906 cubic meters in 2014 vs. 2315 cubic meters in 2012).

Roofing material for the 16 portable buildings used for classrooms and offices at the Comox Valley Campus was removed and replaced with white EPDM (ethylene propylene diene terpolymer) material. Although North Island College is in the northern climes, winters are typically mild so white EPDM was selected over black EPDM, roll roofing, or tar and gravel roofing as white EPDM is highly reflective, reducing air conditioning and cooling costs during the warmer months.

The educational use of interactive, videoconference courses for distance classes provides students opportunities to pursue education where they live. From Ucluelet to Port Hardy, North Island College offers Interactive Television (ITV) classes, allowing students to participate in lectures from the nearest main campus, reducing the requirement to travel while allowing students to ask questions and discuss course material in real-time. Interactive Television has recently been upgraded to full high-definition video, and regular ITV has been extended to Ucluelet on a pilot basis. Improved video conferencing will reduce the number of face-to-face meetings, reducing travel while improving the quality of meetings that currently use only teleconference. The College is moving to provide more service on-line for students at a distance while providing support for online and blended program and course development.

North Island College's Datatel Portal & Datatel Colleague web portal technology continues to be improved to provide increased electronic communications and accessibility to information among the College's staff and students. The portal is used for managing education-related tasks, scheduling, reviewing grades and class assignments, mailboxes, calendaring, task management, targeted communications, online collaborations of spaces and tools, as well as online data storage and information aggregators. By blending all of the academic and administrative processes across the institution into one fully integrated enterprise, operations will be optimized, unified access to different online systems will be provided, and the college will be better able to support student success. The Datatel Portal and Datatel Colleague support reductions in printing, and supports implementation of environmentally sustainable practices.

The Comox Valley Campus Master Plan, issued in April 2013

([https://portal.nic.bc.ca/employee\\_resources/facilities/Documents/NIC%20Master%20Plan%20Report%20May%2016%202013.pdf](https://portal.nic.bc.ca/employee_resources/facilities/Documents/NIC%20Master%20Plan%20Report%20May%2016%202013.pdf)), is committed to promoting sustainable thinking for campus development and planning projections. This plan emphasizes sustainable practices which allow for campus growth and increased population while protecting the natural landscape of forested and undergrowth. All design and development proposals require a sustainability report to be submitted outlining proposed sustainable measures. Sustainable measures are to include the natural environmental, water conservation, energy efficiency and atmospheric emissions, construction materials and resources, and the indoor environment.

Other key achievements for 2014 include, but are not limited to:

- The Ucluelet Oceans Workshop, co-sponsored by the Clayquot Biosphere Trust, the Ucluelet Aquarium, and North Island College brought together academics, engineers, and students to discuss ocean sciences to discuss topics such as radiation, aquaculture, and wave energy.
- myNIC, North Island College's gateway to its electronic services, was fully implemented. myNIC facilitates 'Learning Communities' for students and faculty and strengthens sense of community by providing online areas for communication and collaboration. Access to these online communities and support services provided by myNIC creates the flexibility required to deliver programs in remote areas on dynamic schedules, reducing the requirement to travel to college sites.
- North Island College's faculty has developed technology enabling learners in distant locations as far reaching as Denver, Alaska and Hawaii to conduct laboratory experiments remotely. The Remote Web-Based Science Laboratory (RWSL) is a suite of audio, video, hardware and software that allow distance astronomy students to control and collect real data from actual science lab equipment in real time over the internet. Encouraging people in disparate, low density areas to learn, work, and stay where they live has an added benefit of supporting these communities by retaining skilled work forces. Physically located at the Comox Valley Campus, the RWSL has been used by students at Kwantlen Polytechnic University, Kodiak College in Alaska, and by students from around British Columbia taking Space Science Astronomy 100 & 101 through NIC. RWSL was one of the top 12 finalists shortlisted for the Reimagine Education Awards at the Wharton School of Business, "the Oscars" of innovation in higher education awards (Campbell River Mirror, December 16, 2014), with universities from the UK, Singapore, Australia, Korea, Germany, India, Mexico, and the United States, finishing second to Hong Kong University.
- Retrofitting programmable thermostats to allow better temperature control of buildings, both for programming and for daily temperature adjustments.
- The College continues to support community initiatives and work with local community and governments to support initiatives and awareness.
- North Island College partnered with more than 10 First Nations (in Alert Bay, Ahousaht, Bella Coola, Port Hardy, Campbell River, Port Alberni, Zeballos, Kyuquot, Bella Bella, and Kingcome Inlet), and over 90 training contracts were delivered to aboriginal communities, service organizations, and industry to support regional training needs, reducing the requirement to travel.
- North Island College was selected by the J.W. Connell Family Foundation as one of 10 organizations nation-wide to advance sustainable procurement and build the capacity of local producers to supply food to large institutions in the Comox Valley, including health care institutions. This project will be part of a national learning group working together to advance sustainable food purchasing in public institutions. (2014, October 3). *Local Food project ready to advance*. Comox Valley Echo, pp. B1, B2. <http://www.nic.bc.ca/carti/projects/FEED/Default.aspx>

- Various sustainability presentations that have been open to the public have been held at the Comox Valley Campus's Stan Hagen Theatre. These presentations have been posted to TEDxTalks.  
<http://tedxtalks.ted.com/video/Comox-Valley-Project-Watershed;search%3Acomox%20valley>  
<http://tedxtalks.ted.com/video/TEDxComoxValley-Nancy-Hofer-Sus;search%3Acomox%20valley>
- The College continues to work as a Power Smart Partner with BC Hydro to reduce energy consumption.
- Continuation of kitchen composting and deep fryer oil recycling.

## Emission Reduction Goals for 2015

The College will continue to educate users and increase awareness of ongoing efforts to become carbon neutral. Projects already in motion for 2015 to decrease carbon offsets and reduce water use include:

- The College continues to explore opportunities to increase recycling in all college communities and to encourage carpooling and use of public transportation. North Island College is working on a pedestrian/bicycle pathway project that will connect Port Alberni's new high school with North Island College's Port Alberni campus along the north side of Echo Park.
- Investing in energy efficient upgrades to existing infrastructure.
- Bringing in real time building energy metering for public education and awareness.



# 2014 Carbon Neutral Action Report (CNAR)

## - Part 2 ACTIONS

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### Organization Name

North Island College

### Actions Taken to Reduce Emissions

#### 1) Stationary Fuel Combustion, Electricity (Buildings): Indicate which actions were taken in 2014:

Performed energy retrofits on existing buildings

Yes

Built or are building new LEED Gold or other "Green" buildings.

No

Undertook an evaluation of overall building energy use.

No

Please list any other actions taken to reduce emissions from Buildings:

Replaced all exterior lighting at the Comox Valley and Port Alberni Campuses including building lighting, post top lighting, parking lot lighting, and roadway lighting with LED fixtures. Existing lights replaced consisted of CFL, CF, & PL lamps (compact fluorescent lamps), and ML (metal halide).

Completed renewals on HVAC systems for Raven Hall, Discovery Hall, Puntledge Hall at the Comox Valley Campus, and at the Port Alberni campus. Upgraded controls for the new DDC system to effectively run the new and existing equipment for better climate control, reducing interior CO2 levels, and reducing energy usage.



Upgraded Exterior lighting controls at the Comox Valley and Port Alberni campuses. Lighting is now set to go on/off automatically based upon the campus's geographic longitude and latitude, and date.

**2) Mobile Fleet Combustion (Fleet and other vehicles):Indicate which actions were taken in 2014:**

Do you have a fleet?

Yes

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)

No

Replaced existing vehicles with hybrid or electric vehicles

Yes

Reduced the overall number of fleet vehicles

No

Took steps to drive less than last year

Yes

Please list any other actions taken to reduce emission from fleet:

Car pooling was encouraged, and our Bike to Work week was highly promoted. Talks with BC Transit contributed to the creation of express routes to urban centers, improving service for students and staff.

Promotion of Electric Vehicle recharge station at the Campbell River Campus through Power Tech Labs evCloud website. This recharge station is available to staff, students, and the general public at no charge.

### **3) Supplies (Paper):Indicate which actions were taken in 2014:**

Used less paper than previous year

No

Used only 100% recycled paper

No

Used some recycled paper

Yes

Used alternate source paper (Bamboo, hemp, etc.)

No

Please list any other actions taken to reduce emissions from paper use:

Scanning of documents for filing in a network paperless system is being encouraged rather than copying documents to be filed as hard copies.

Students continue to pay to use photocopies and printers, encouraging less paper use.

North Island College's Datatel Portal and Datatel Colleague web portal technology continues to be improved to provide increased electronic communications and accessibility to information among the College's staff and students. The Datatel Portal and Datatel Colleague supports reductions in printing, and supports implementation of environmentally sustainable practices.

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### **Actions Taken to Reduce Emissions - continued**

Explain how you plan to continue minimizing emissions in 2015 and future years:

Investing in energy efficient upgrades to existing infrastructure such as increasing insulation values of buildings and replacing boiler and hot water tanks.

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

Yes

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**Actions to Promote Sustainability and Conservation - Optional**The following are actions that fall outside the scope of the Carbon Neutral Government Regulation, but which many organizations still undertake and may wish to report on. This section is optional for reporting.

**Business Travel**Created a low-carbon travel policy or travel reduction goal (Low-carbon: Lowest emission of greenhouse gases per kilometre per passenger)

No

**Virtual Meeting Technology**Installed web-conferencing software (e.g., Live Meeting, Elluminate, etc.)

Yes

**Made desktop web-cameras available to staff**

Yes

**Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)**  
(No response)

**Encourage carpooling to meetings**

Yes

**Education and Awareness**Have created Green, Sustainability, Energy Conservation, or Climate Action Teams.

Yes

**Provided resources and/or dedicated staff to support these teams**

Yes

**Provided behaviour change education/training for these teams (e.g., community-based social marketing)**

No

**Established a sustainability/green awards or recognition program**

(No response)

**Support green professional development (e.g., workshops, conferences, training)**

(No response)

**Planning for Cimate Change**Have assessed whether extreme weather events and/or long term changes in climate will affect our organization's business areas

(No response)

**Long term changes in climate have been incorporated into our organization's decision making.**

(No response)

**Actions to Promote Sustainability and Conservation - Optional (continued)**

**Staff Awareness and Education** Provided education to staff about the science of climate change

No

**Provided education to staff about the conservation of water, energy, and raw materials**

Yes

**Provided green tips on staff website or in newsletters**

Yes

**Alternate Work/Commuting Options** Allow for telework/working from home

(No response)

**Staff have the option of a compressed work week**

(No response)

**Commuting by foot, bicycle, carpool or public transit is encouraged**

Yes

**Shower or locker facilities are provided for staff/students who commute by foot or by bicycle**

Yes

**Secure bicycle storage is provided**

Yes



**Other Sustainability Actions** Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models

Yes

Put in place a potable water management strategy to reduce potable water demand of building-level uses such as cooling tower equipment, toilet fixtures, etc. and landscape features

Yes

Have put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities

Yes

Have implemented a hazardous waste reduction and disposal strategy (Hazardous Waste: E.g., electronics including computer parts and monitors, batteries, paints, fluorescent bulbs)

Yes

Have incorporated minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.)

No

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)

Yes

Incorporated lifecycle costing into new construction or renovations

(No response)

**Please list and other sustainability actions you wish to report not included in the previous list.**

Replaced all toilets in Port Alberni and Comox Valley Campus with low flow toilets and replaced tap fixtures with hands free tap system. In the last quarter of 2014 the Comox Valley Campus realized a 61% reduction in water usage over the same period in 2012 (906 cubic meters in 2014 vs. 2315 cubic meters in 2012). In the last quarter of 2014 the Port Alberni Campus realized a 55% reduction in water usage over the same period in 2012 ( 3558 cubic meters in 2014 vs. 7878 cubic meters in 2012).

Roofing material for 16 portable buildings at the Comox Valley Campus was removed and replaced with white EPDM (ethylene propylene diene terpolymer) material. Although North Island College is in the northern climes, winters are typically mild so white EPDM was selected over black EPDM, roll roofing, or tar and gravel roofing as white EPDM is highly reflective, reducing air conditioning and cooling costs during the warmer months.

Installation and implementation of a composting program for the cafeteria, implementation of a campus wide composting program organized and run by students, and implementation of the first annual Campus Composting Day.

Energy reduction initiatives such as increased use of programmable thermostats, low-energy lights, and motion-activated/timer lights.

Transportation initiatives such as promotion/support for alternative (to single occupant car) commuting methods and being an advocate for improved public transit options for College community.

Community Engagement/Education initiatives include provision of access to sustainability ideas and information via North Island College's website and portal, facilitation of dialogue about sustainability issues among the College community and support for the integration of sustainability into programming/curriculum (where appropriate).

Staff and student carpooling is encouraged through the use of carpool information on the North Island College portal.

The College continues to work as a Power Smart Partner with BC Hydro to reduce energy consumption.

North Island College was selected by the J.W. Connell Family Foundation as one of 10 organizations nation-wide to advance sustainable procurement and build the capacity of local producers to supply food to large institutions in the Comox Valley, including health care institutions. This project will be part of a national learning group working together to advance sustainable food purchasing in public institutions.

(2014, October 3). Local Food project ready to advance. Comox Valley Echo, pp. B1, B2.

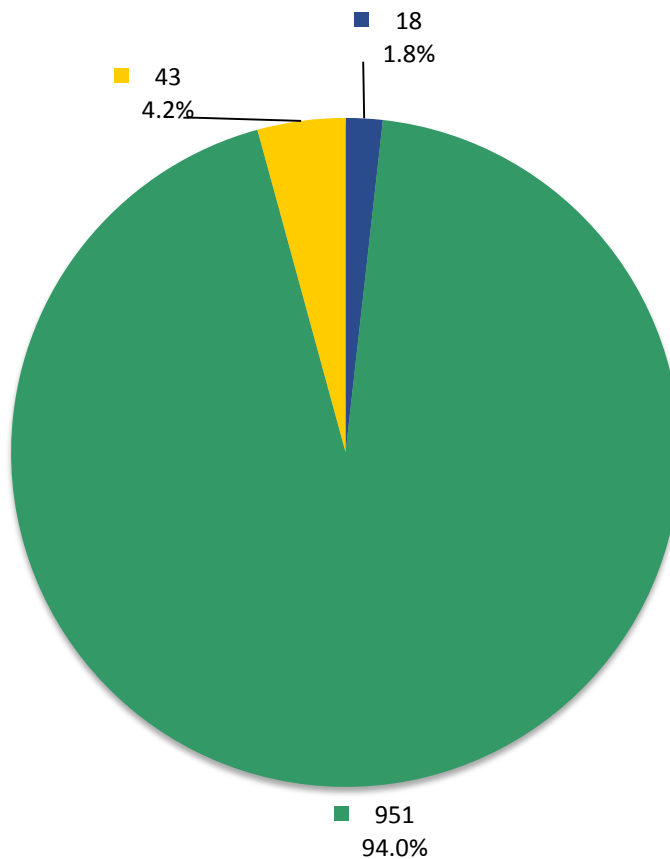
<http://www.nic.bc.ca/carti/projects/FEED/Default.aspx>

Various sustainability presentations that have been open to the public have been held at the Comox Valley Campus's Stan Hagen Theatre. These presentations have been posted to TEDxTalks.

<http://tedxtalks.ted.com/video/Comox-Valley-Project-Watershed;search%3Acomox%20valley>

<http://tedxtalks.ted.com/video/TEDxComoxValley-Nancy-Hofer-Sus;search%3Acomox%20valley>

# North Island College Greenhouse Gas Emissions by Source for the 2014 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 1,013**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

## **Offsets Applied to Become Carbon Neutral in 2014 (Generated June 23, 2015 4:27 PM)**

Total offsets required: **1,012**. Total offset investment: **\$25,300**. Emissions which do not require offsets: **1** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

\*\* Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.